

INSTRUCTION MANUAL



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INFRARED PANELS INSTRUCTIONS

Thank you for purchasing an infrared heating powered by MAREX HEATING.

THIS VERSION OF THE INSTRUCTION MANUAL IS ONLY A TRANSLATION FROM THE ORIGINAL GERMAN VERSION APPROVED BY TUV RHEINLAND GERMANY.

MAREX IR HEATING panels operate on electricity. According to this definition, these devices are dangerous. It is therefore necessary to read these instructions carefully before use. If you have questions, we are also happy to help. Keep this manual in the vicinity of the device.

1. GENERAL PRODUCT INFORMATION

1.1. GENERAL INFORMATION ABOUT INFRARED HEATERS

MAREX IR HEATING surface panels are direct heating systems that use the principle of heat radiation (infrared). They have very low energy consumption and achieve a pleasant and comfortable indoor climate. The heat conductor is carbon fiber.

MAREX IR HEATING panels convert with nearly 100% efficiency electrical energy into heat. The special coating on the surface is optimized so as to achieve maximum heat dissipation in the wavelength range from 7 to 10um.

With MAREX IR HEATING panels you heat as the sun warms the earth - IR HEATING panels bring this heat into your home, minimize your heating costs and also has a salutary effect on the human body. The heat has a positive effect on the human heart, especially for the elderly, children and newborns. IT has a very effective impact on persons who are restricted in their movement. The use of MAREX IR HEATING panels improves your overall health.

1.2 GENERAL INFORMATION ABOUT MAREX HEATING PANEL HEATERS

MAREX IR HEATING panels can be made applicable in different rooms and environments (for each application, see Section 1.3.). Depending on the environment and nature of the desired

application, various models are recommended (to find the best model for you, please contact us or your dealer). For all models, and applications be sure to follow the safety instructions for installation (see below point 3.1).

MAREX IR HEATING panels heat up in just a few minutes (about 5 to 10 minutes, see point 2). If you not have a pleasant warm climate area immediately, you have to run the heating element for an extended period for the first time, because the cold objects (furniture, walls, ceilings, floors, etc.) need to warm up. Once these solids are heated, the warmth will be spread throughout the room and you will be able to reduce the duration of the heating element to a minimum. Hence an enormous contribution to environmental protection will be provided.

Depending on which MAREX IR HEATING panel heater model you have selected, the surface will heat from 80 to 125 °C. All MAREX IR HEATING panel heaters are equipped with temperature sensors that regulate the surface of the unit before overheating.

MAREX IR HEATING panel heaters can be found in different environments application. Further details, see section 1.3.).

1.3 VARIOUS APPLICATIONS AND MODELS

1.3.1 INDUSTRIAL PANELS

The so-called "industrial panels" are for environments where intense heat is required, especially for industrial processes as well as drying processes. Industrial panels have a higher surface temperature than any other heating panels and are not intended for private users (it requires special security precautions are taken).

1.3.2. WALL AND CEILING PANELS

In order to heat a room optimally, MAREX IR HEATING panels are attached to the ceiling. The radiation can be optimized. Even more space can thus be saved.

MAREX IR HEATING panels are light enough to be integrated into existing ceiling systems. Please note the necessary details for instructions described below (see section 3.1).

MAREX IR HEATING panels can be optimally used as an additional or main heating system. Due to the thin and light structure and the differences in surface design, the panels are compact and suitable for almost all walls (please notice the instructions for installation in section 3.1). Depending on the position of the suspension, MAREX IR HEATING panels have a convection heat share of almost 0%.

2. SAFETY NOTES BEFORE FIRST USE



2.1. GENERAL SAFETY INSTRUCTIONS

- All MAREX IR HEATING panel heaters are only suitable for use as a heating element. Any improper use can lead to a significant danger to people, animals and the environment.
- MAREX IR HEATING panel heaters are not intended to be used by persons (including children) with reduced physical, sensory or mental abilities or lack of experience and / or knowledge, unless they are supervised by a person responsible for their safety or have received instructions how to use the device.
- All heating panels must be kept away from children. Children should be supervised to ensure they do not play with the device.
- Heating panels are not suitable for use in rain or wet conditions, under water, and for any non-intended use.
- For all heating panels please observe the following installation instructions (see section 3).
- Each MAREX IR HEATING panel heaters have a built-in safety switch that turns off the heating element automatically, if not handled correctly (i.e. overheating at high temperatures which may, for example, be a result of covering the heating element). By pulling the plug and after a wait of about 10 to 15 minutes, the safety switch is activated automatically and the unit is operational again.

2.2. SPECIAL SAFETY INSTRUCTIONS



- **DO NOT COVER.** Warning: To avoid overheating, the heater must not be covered. Never cover the heating panel. This can cause heat build up.
- The heater is very hot in use (depending on model, up to 125C). A contact could lead to serious

burns.

- Each MAREX IR HEATING panel heater is equipped with a power cord and plug. By using an optional adapter you can operate the heater with room thermostat. Make sure that nobody can trip over the cable. Protect the unit from overloading the network security protection and operate the equipment only as specified on the nameplate.
- Do not use the heating panel when the power cord or plug is damaged. This should be checked before each use. Drag or not to tear the mains cable. Do not scrub the cable to edges and do not clamp the cable. Neither the cable nor the plugs may be repaired or replaced. In case of damage contact the manufacturer or his service.
- Never dip the heating panels into water or put it in water. Also, the heating element has never been touched by persons who are in the bathtub or under the shower. Not use this device near a bathtub, a shower or a swimming pool.
- The heating panel can only be set in operation in permanently mounted condition (for more information on mounting, see Item 3.1).
- In case of damage of the heating panel or the network cable, immediately disconnect from the network and keep it safe (for further information about warranty process, see Item 8).
- Never open the device to prevent damage and accidents (especially look at the detailed information described in section 3.5.). If the device was not opened by experts, warranty and liability claims are not approved.

3. INSTRUCTIONS FOR INSTALLATION AND USE

3.1. INSTRUCTIONS FOR MOUNTING

MAREX IR HEATING panels must be mounted with the supplied **original suspension** (aluminum profiles at the back of the panels and screws included). For panels that are used without the original suspension, the warranty and liability are excluded as well as consequential damages.

MAREX IR HEATING panels must only be used in the manufacturer-related frames. For panels that are used without the **original frame** warranty, liability and damages are excluded. The following instructions for your own frame solutions are for informational purposes only and should not be

conclusive and binding. No liability is accepted for the following notes.

3.1.1. GENERAL INSTRUCTIONS FOR MOUNTING

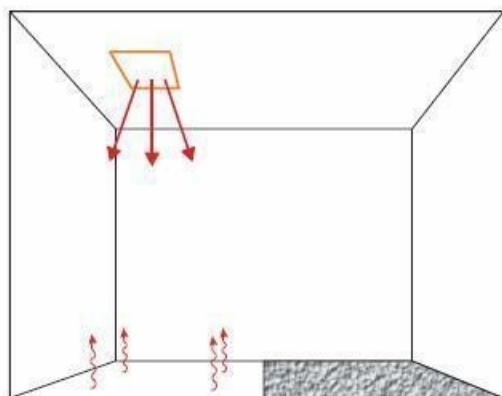
Depending on the desired application (see section 1.3.) different types of installation are provided. All MAREX IR HEATING panels have an original suspension (aluminum profiles at the backside of the panels and according screws for wall / ceiling mounting are enclosed).

- Make sure that the power plug during assembly is not plugged in. During installation the unit, make sure that the heating panel is not in the 'ON' state.
- Do not make any holes in the heating panel. Should holes been made for any reason, do not put the device into operation in any case. Please contact the manufacturer or dealer from whom you purchased the product.
- Use the enclosed **mounting template** and follow the instructions for installing as described in detail, in order to ensure a quick and easy installation.
- If the device is installed in children's rooms or rooms accessible to children, make sure that the device is suspended 1.2m above the ground.
- **DISTANCE TO BACKSIDE:** MAREX IR HEATING panels give off at the backside only convection heat (no infrared radiation). However, make sure that the distance to the back of the heating panels (metal / aluminum plate) is not less than 25mm in order to ensure ventilation. This distance is always given when you use the standard suspension. If you use a different mounting system than the original, warranty as well as liability for consequential damages is excluded.
- **DISTANCE TO FRONTSIDE:** MAREX IR HEATING panels send out infrared radiation only on the front side. Make sure that a minimum distance of 25cm to the front is given.
- When mounted in public spaces, the VDE 0108 has to be observed.
- Do not mount the heating panel near a shower, tub or a swimming pool. Make sure that the heating panel cannot be touched by any person who is in the bath or shower. In case of installation in wet rooms, the installation has always been done by a specialist company and according to VDE0100 part 701, 702 and 703 respectively to the ÖVE-EN standards.

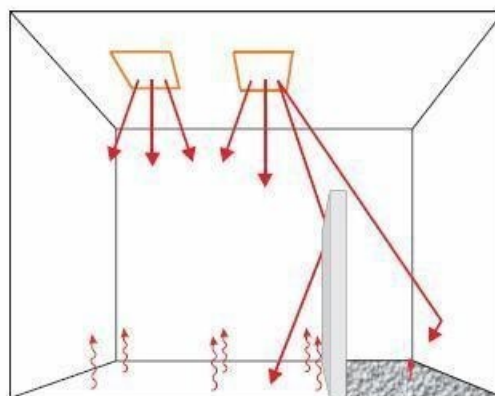
- Never mount the heating element before or immediately below a socket.
- Make sure that the plug is accessible after installation of the panels and in need can be immediately drawn.
- If the heating panel is integrated in a permanent electrical installation or connection, a separating device of overvoltage category III for the full separation is needed. This connection has to be carried out by a qualified professional.

3.1.2. GENERAL INFORMATION ON POSITIONING

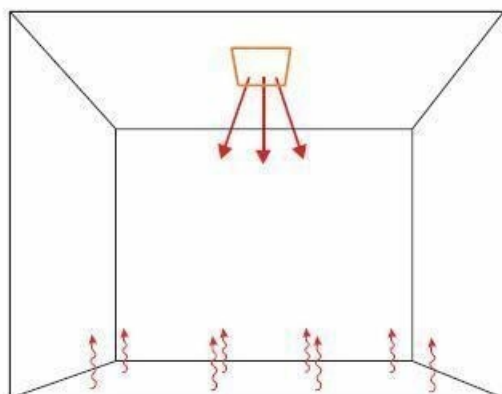
When infrared radiation, due to improper positioning, is not achieved certain areas of space in a room, we speak of "shadow" effect. Optimal positioning can avoid shadow effects. For detailed information about the optimal positioning please consult us or your dealer where you purchased the MAREX IR HEATING panel.



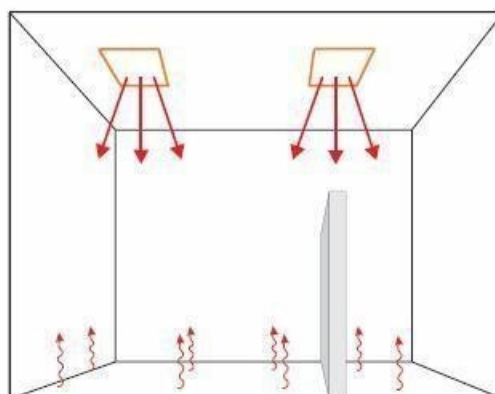
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3.2. INSTRUCTIONS FOR FIRST USE

- Note that in Section 3.1.mentioned instructions for assembly.
- Now connect the heating panel to a perfect placed and installed pair of socket (note the described instructions above for safety).
- Now the heating panel can put into operation. The heating time is approximately 5 to 10 minutes. If you do not have a pleasant warm climate area, you have to run the heating element for an extended period, as it can be, for the first time, that the cold objects (furniture, walls, ceilings, floors, etc.) only need to warm up.

3.3. INSTRUCTIONS FOR REGULAR USE

- Do not place any clothing or other similar items on the heating element (**JAM HEAT AND FIRE DANGER**).
- When heating up or cooling down the heating panels can be caused by the expansion of a minimal material noise. This is no cause for complaint, but normal.
- The heater is very hot in use. A contact could lead to serious burns.
- All heating panels are equipped with temperature sensors that regulate the surface of the unit and prevent from overheating.
- If you do not use the heating panel for an extended period of time, it is advisable to pull the plug.
- The surface of the heating panels should be kept clean. Please refer to the instructions described in more detail in Section 3.4.

3.4. INSTRUCTIONS FOR CLEANING AND MAINTENANCE

MAREX IR HEATING panels do not require any maintenance. If you find any irregularities, unplug the power cord immediately and contact us or your dealer, where you purchased the panel.

For cleaning you go best by executing the following steps:

- Before cleaning, pull the plug off.
- The heater is very hot after use (depending on model, up to 125C, BURNING DANGER). Before you clean the heating element, let it cool down first (about 10 to 15 minutes).
- Do not immerse the heating panel for cleaning into water or spray it off. Never use a wet cloth. Clean with a duster or slightly dampened cloth. Make sure that the heating element is completely dry before re-commissioning.
- Do not use abrasives or other harsh cleaning products or rough cloths. Wall heaters with pictures clean dry only.
- For ceiling panels occasionally remove any dust on the top with a vacuum cleaner.

3.5. INSTRUCTIONS FOR REPAIR

- In case of irregularities of the devices, always contact us or your dealer and do not repair by yourself.
- If a malfunction occurs, immediately disconnect the power cord. Do not use or stop use immediately if the unit is damaged, especially if network cable, housing or heating panel itself are affected.
- In addition, we ask you, to carefully read the described details in section 8 about the details and processing of warranty cases.
- Never remove the label and the warning sticker. The data on the nameplate are of importance for the warranty.

4. TECHNICAL DETAILS

The following information provides general information applicable to panel heaters. Please note additional information on performance, and size at the sticker on the back of your panels.

5. ENVIRONMENTAL PROTECTION

Do not discard packing materials easily. Please note the following:

- Packaging material made of cardboard can be recycled at the waste paper collection or the responsible disposal system.
- Do not give plastic foils or packaging into the hands of children. Please recycle the protective film properly.
- The heater or parts thereof may not be disposed with normal household waste, but must be taken to a collection point for recycling of electronic and electric devices. The symbol on the product, on the packaging and on this manual indicates this.
- With the reuse, recycling or other forms of recovery of waste you make an important contribution to protecting our environment. Please ask for details at your local authority or the appropriate disposal location.

6. DECLARATION OF CONFORMITY

We hereby declare that the product "MAREX IR HEATING Panel" to which this declaration relates, is compliant with the following guidelines and standards:

EN60335-1

EN60335-2-30

EN50366



6. TRANSPORT AND DELIVERY

Each individual heater element is, after final testing, packaged securely in suitable boxes and shipped with a freight forwarding company. In order to provide redress for damage during transit, we ask that you, necessarily in the presence of the delivering carrier, unpack the heating panel and in the case notice the damage on the corresponding transport document or packing slip.

8. OCCURRENCE OF AN ERROR - SHORT DESCRIPTION



INSTRUCTIONS AND WARNINGS FOR INFRARED HEATING PANELS

Dear Customer,

Thank you for choosing a product from MAREX SOLUTIONS. Should it come to a fault with your device, we ask you to first contact the dealer where you purchased the device. Should we not have the problem solved in this way, please send your device back to the dealer and enclose the following warranty card.

- MAREX HEATING provides on all the products a 60-month warranty, from date of purchase. Proof of purchase is a guarantee slip.
- On the color fastness of our motifs, we provide 60 months warranty.
- Excluded from the warranty are external optical defects, beyond the damage caused by improper installation or faulty handling, or removed or obliterated serial numbers or mechanical damage.
- Handling or manipulating by unauthorized third parties voids the warranty claim.
- The warranty covers the repair or replacement of the defective part, but not your necessary expenses.
- We point out that we refuse the replacement if it is related to the removal of defects with a disproportionately high cost (represents the rule).
- The defective unit or part shall be sent with a description in original packaging, including accessories and the invoice (copy) and in case of warranty with warranty card to MAREX HEATING. Prepaid items are generally not accepted.
- You get the warranty card with a notation indicated by our service workshop and the repaired unit / part back.

Warranty Card

Device: _____

Remarks (filled in by MAREX HEATINGS):

Device Type: _____

Serial number: _____

Date of purchase: _____

Customer: _____

Date / stamp / signature

NOTES

